

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number
WO 2005/040102 A3(51) International Patent Classification⁷: **C07C 309/76**,
309/75, 205/37, 217/86, 271/28, C07D 209/04, 215/00,
265/36, A61K 31/196, 31/216, 31/325, 31/4045, 31/47,
31/538, A61P 3/06Ltd., Discovery Research, Miyapur, Bollaram Road,
Hyderabad 500049 (IN).(21) International Application Number:
PCT/IB2004/003429

(22) International Filing Date: 20 October 2004 (20.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
862/CHE/2003 28 October 2003 (28.10.2003) IN(71) Applicant (for all designated States except US): **DR. REDDY'S LABORATORIES LTD.** [IN/IN]; 7-1-27,
Ameerpet, Hyderabad 500016 (IN).

(72) Inventors; and

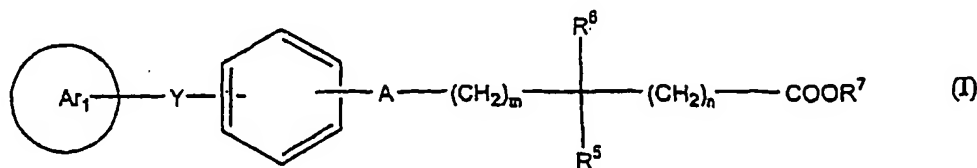
(75) Inventors/Applicants (for US only): **DEBNATH**, Bhu-
niya [IN/IN]; Dr. Reddy's Laboratories Ltd., Discovery
Research, Miyapur, Bollaram Road, Hyderabad 500049
(IN). **GURRAM**, Ranga Madhavan [IN/IN]; Dr. Reddy's
Laboratories Ltd., Discovery Research, Miyapur, Bol-
laram Road, Hyderabad 500049 (IN). **SAIBAL**, Kumar
Das [IN/IN]; Dr. Reddy's Laboratories Ltd., Discovery
Research, Miyapur, Bollaram Road, Hyderabad 500049
(IN). **JAVED**, Iqbal [IN/IN]; Dr. Reddy's Laboratories
Ltd., Discovery Research, Miyapur, Bollaram Road, Hy-
derabad 500049 (IN). **RANJAN**, Chakrabarti [IN/IN];
Dr. Reddy's Laboratories Ltd., Discovery Research,
Miyapur, Bollaram Road, Hyderabad 500049 (IN). **LA-
BANYAMOY**, Kole [IN/IN]; Dr. Reddy's Laboratories(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— of inventorship (Rule 4.17(iv)) for US only

Published:

— with international search report

(88) Date of publication of the international search report:
23 March 2006For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.(54) Title: NOVEL COMPOUNDS AND THEIR USE AS ANTIDIABETIC AND HYPOLIPIDEMIC AGENTS, PROCESS FOR
THEIR PREPARATION AND PHARMACEUTICAL COMPOSITIONS CONTAINING THEM(57) Abstract: The present invention relates to novel compounds of formula (I) and their pharmaceutically acceptable salts, wherein ring "Ar₁" represents a monocyclic or polycyclic aromatic or partially saturated aromatic polycyclic, which may optionally contain up to 3 heteroatoms selected from N, S or O. The said monocyclic or polycyclic ring may be unsubstituted or have up to 4 substituents which may be identical or different; m and n independently represents an integer from 0 to 6; A represents O, S or bond; Y is selected from (CH₂)_p, (CH₂)_pB(CH₂)_q, (CH₂)_pD(CH₂)_q, where p, q and r each independently represents an integer from 0 to 6; B and D independently represents S, O, NR⁸ or a bond, with a proviso that when B and D represents hereto atom p is not zero; R represents hydrogen, alkyl, alkenyl, -S(O)₂-R⁸ or -C(O)R⁸ where R⁸ is alkyl, alkoxy; R⁵ and R⁶ independently represents hydrogen, alkyl, cycloalkyl or alkoxy; R⁵ and R⁶ together may form 3-8 membered cyclic ring which may optionally contains one or two hereto atoms selected from O, S or N; R⁷ represents hydrogen, optionally substituted groups selected from alkyl, cycloalkyl, alkenyl or alkynyl. The present invention also relates to a process for preparation of compounds of formula (I), to pharmaceutical compositions containing compounds of formula (I) and their use in particular as antidiabetic, hypolipidemic, antiobesity and hypocholesterolemic agents.